

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/697,775	10/26/2000	Paul G. Milazzo	WMI-004CN4 (8415/5)	5306	
23363 7.	590 06/02/2005	•	EXAMINER		
•	ARKER & HALE, LLP	KOENIG, ANDREW Y			
PO BOX 7068 PASADENA, CA 91109-7068			ART UNIT	PAPER NUMBER	
			2611		
			DATE MAILED: 06/02/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	on No.	Applicant(s)			
Office Action Commence			75	MILAZZO ET AL.			
	Office Action Summary	Examine	r	Art Unit			
		Andrew \		2611			
Period fo	 The MAILING DATE of this communication a or Reply 	appears on th	e cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION INSIDE THE STATE OF THIS COMMUNICATION INSIDE THE STATE OF THIS COMMUNICATION INSIDE THE STATE OF THE STAT	N. 1.136(a). In no every reply within the state iod will apply and very tute, cause the ap	rent, however, may a reply be tim tutory minimum of thirty (30) days rill expire SIX (6) MONTHS from olication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed on 16	February 20	05.				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ T	his action is r	non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims	÷					
	Claim(s) <u>52,54-66,68-79,81-83 and 111-115</u>	- •	• • • • • • • • • • • • • • • • • • • •				
	4a) Of the above claim(s) is/are withd	rawn from co	nsideration.				
·	5) Claim(s) is/are allowed. 6) Claim(s) <u>52,54-66,68-79,81-83,111,113,114 and 116-119</u> is/are rejected.						
	Claim(s) 112 and 115 is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
		aror election i	equirement.				
	on Papers						
	The specification is objected to by the Exami						
10)	The drawing(s) filed on is/are: a) _ a						
	Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrections.						
11)	The oath or declaration is objected to by the						
Priority ι	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for forei All b) Some * c) None of:	gn priority un	der 35 U.S.C. § 119(a)	-(d) or (f).			
	1. ☐ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority docume		• •				
	3. Copies of the certified copies of the pr	-		d in this National Stage			
* 0	application from the International Bure	•	• • • • • • • • • • • • • • • • • • • •				
~ 3	see the attached detailed Office action for a li	ist of the cert	tied copies not received	J.			
Attachme=	We)						
Attachmen' 1) ⊠ Notic	t(s) e of References Cited (PTO-892)		4) Interview Summary ((PTO_413)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	te			
3) 🔀 Inform Paper	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date <u>11/5/04</u> .	08)	5) Notice of Informal Pa	atent Application (PTO-152)			

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 16 February 2005 have been fully considered but they are not persuasive.

Regarding independent claims 52 and 66, The applicant argues that the combination of Kaiser and Kitsukawa fails to teach a "sixth data structure element storing image overlay data for a plurality of objects in the video frame." The examiner disagrees; Kaiser teaches an HTML table (col. 10, II. 20-30), which equates to a sixth data structure element storing image overlay data for a single object in the video frame. Consequently, the examiner introduces Kitsukawa, which teaches a plurality of selectable items in a video frame (col. 8, II. 23-36). Accordingly, the combination of Kaiser and Kitsukawa teaches "sixth data structure element storing image overlay data for a plurality of objects in the video frame." in that Kitsukawa suggests adding plural objects in a video frame which modifies the single object of Kaiser.

Regarding claims 113, 116, and 119, the applicant traversed that assertion of Official Notice that "sequencing through objects in response to user commands is well known." Consequently, U.S. Patent 5,880,768 to Lemmons et al. (hereafter Lemmons) teaches a program guide navigation wherein upon the user entering an input (up/down, left/right, etc.) sequencing to another object, see fig. 12-28.

The examiner has omitted the rejection for claim 60, which has been added.

Consequently, a new grounds of rejection has been introduced for claim 60.

Application/Control Number: 09/697,775

Art Unit: 2611

Claim Rejections - 35 USC § 112

Page 3

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 117-119 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claims 117-119 recites the limitation "The method of claim 95" in line 1. There is insufficient antecedent basis for this limitation in the claim. Claims 117-119 are dependent on cancelled claim 95. Consequently, the scope cannot be determined. The examiner notes that the limitations of 117-119 are substantially discussed with respect to claims 114-116, respectively.

Allowable Subject Matter

5. Claims 112 and 115 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 52, 55-59, 61-66, 69-73, 75-79, 81-82, 111, 113, 114, and 116-118 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,615,408 to Kaiser et al. (Kaiser) in view of U.S. Patent 5,889,746 to Moriyama et al. (Moriyama) and U.S. Patent 6,282,713 to Kitsukawa et al. (Kitsukawa).

Regarding claims 52 and 66, Kaiser teaches placement zones (as shown in figure 2), which has a reference to an object in the video frame (Abstract), which equates to a first annotation data structure element that includes and object reference to an object in the video frame. Kaiser teaches a trigger zone which contains a Uniform Resource Identifier (URI), which equates to a second annotation data structure element referenced by the first identifier and including a set of data references (col. 6, II. 34-39). Kaiser teaches the URI being identified by the object in that the URI has a "<videoprod>" field which is not temporally unique into which the trigger is embedded (col. 6, II. 43-64. However, Kaiser is silent on the first annotation element identifying the second element as claimed. Moriyama teaches identifying elements via pointers, as shown in figure 9. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser by identifying a second element via a pointer as taught by Moriyama in order to efficiently manage dynamic resources. Further, Kaiser discloses that the image area (described using a placement zone) is referenced by some form of an identifier in order to link actions to the image (col. 10, II. 1-8). Kaiser teaches a singular object in the video frame an indicating the information with an HTML table (which equates to a sixth data structure element) (col. 10, II. 20-30), but is silent on storing image overlay data for a plurality of objects in the video frame,

and in response to a user command visually identifying one of the plural objects. Kitsukawa teaches providing advertising information from numerous items in a program scene (fig. 5, labels 521-529, col. 8, II. 23-36), wherein in response to the advertisement mode selected (col. 6-7, II. 65-2) by a user, the program visually identifies at least one of the plurality of objects in the video frame based on the overlay data (col. 7, II. 3-20). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser by storing image overlay data for a plurality of objects in the video frame, and in response to a user command visually identifying one of the plural objects as taught by Kitsukawa in order to provide an innovative and user friendly access to a wealth of information regarding goods and services through the broadcasting system (Kitsukawa: col. 4, II. 15-17).

Regarding claims 55 and 69, Kaiser teaches placing the placement zones in the video stream (fig. 2), which reads on a timing data indicator associated with the at least on of said plurality of data structure elements. Kaiser teaches placing the placement zones in the video stream (fig. 2), which indicates an activation time.

Regarding claims 56 and 70, Kaiser teaches the placement zones associated with a set of video frames (fig. 2, col. 6, II. 18-33), further the trigger is associated with the placement zones and consequently is associated with the video program, given the broadest reasonable interpretation of associated.

Regarding claims 57 and 71, Kaiser is silent on the elements being transmitted separately. Official Notice is taken separately sending data in MPEG is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the

time the invention was made to modify Kaiser by sending the elements separately in order to send data that is larger than the data packets thereby using the existing infrastructure to transmit packets.

Regarding claims 58 and 72, Kaiser teaches a trigger which is used to display the action being performed fig. 6A-6b, which reads on the first set of annotation references including a data field. However, Kaiser is silent on a second identifier referencing a third annotation data structure element. Official Notice is taken that the use of pointers is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser to implement a pointers (which reads on a reference) in order to access another portion of a data structure thereby providing a system that efficiently manages variable length data structures and increasing the robustness of the system.

Regarding claims 59 and 73, Kaiser is silent on the annotation data field is a title data field and the third data structure element is a string including the title of the object. Moriyama teaches a pointer to a text string wherein the text string can be the title (col. 15-16, II. 65-31; see also fig. 9). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser by pointing to a string including the title as taught by Moriyama in order to efficiently manage variable length fields and manage the memory of the system.

Regarding claim 60, Kaiser teaches an ASI has a display identifier for highlighting to the viewer the desired image (col. 10, II. 20-41), wherein upon selection the ASI provides instructions to be taken (col. 9, II. 46-65). However, Kaiser is silent on

explicitly using data structure elements and references to other data structures. Moriyama teaches the use of data structures and pointers (col. 15-16, II. 65-31; see also fig. 9). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser by using data structures and pointers as taught by Moriyama in order to efficiently manage variable length fields and manage the memory of the system.

Regarding claims 61, 62, 75, and 76, Kaiser is silent on a variable parameter field and a variable value. Official Notice is taken that a variable parameter field and variable values are well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser by using a variable parameter field and variable values in order to efficiently manage the memory by dynamically referencing and allocating the memory.

Regarding claims 63 and 77, Kaiser is silent on never duplicating the first and second identifiers. Official Notice is taken that never duplicating identifiers is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser by never duplicating identifiers in order to appropriately reference the appropriate information thereby eliminating access to the incorrect data structure.

Regarding claims 64 and 78, Kaiser teaches location and shape information, which equates to a sixth data structure element (fig. 6B, col. 6, II. 20-41).

Regarding claims 65 and 79, Kaiser teaches that the sixth data structure is associated with a video frame (see fig. 2).

Application/Control Number: 09/697,775

Art Unit: 2611

Regarding claim 81, Kaiser teaches the image overlay data is associated with time data and synchronized to the video frames (col. 10, II. 20-41).

Regarding claim 82, Kaiser teaches identifying the object (col. 10, II. 20-41, fig. 6B), but Kaiser is silent on determining the difference from the a first time and the current time to initiate the event. Official Notice is taken that determining the difference in time to perform an event is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser by determining the difference in time to perform an event in order to efficiently manage events thereby reducing the processing of the system by selectively querying the system clock.

Regarding claims 111, 114, and 117, Regarding claims 53 and 67, Kaiser teaches placing the placement zones in the video stream (fig. 2), which reads on a timing data indicator in association with one of the data structure elements, which synchronizes the display of the mask with the video frame based on the retrieved time data indicator.

Regarding claim 113, 116, and 119, Kaiser is silent on a plurality of objects being identified in sequence in response to one or more user commands. Kitsukawa teaches cursor direction keys for controlling cursor movement on the display (col. 4, II. 46-54) for navigating to plural objects in the display (fig. 5, labels 521-529, col. 8, II. 23-36), however both Kaiser and Kitsukawa are silent on the objects are visually identified in sequence in response to one or more user commands. Official Notice is taken that sequencing through objects in response to user commands is well known, such as in

the analogous personal computer art of using "tab" to navigate around a GUI or in the television art of using a cursor to navigate through menus. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser and Kitsukawa by as taught by visually identifying objects in sequence in order to effectively provide a means to the user to select a device or desired product thereby simplifying the selection process.

8. Claims 54, 68, and 83 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,615,408 to Kaiser et al. (Kaiser), U.S. Patent 5,889,746 to Moriyama et al. (Moriyama) and U.S. Patent 6,282,713 to Kitsukawa et al. (Kitsukawa) in view of U.S. Patent 6,415,438 to Blackketter et al. (Blackketter).

Regarding claims 54 and 68, Kaiser teaches placing the placement zones in the video stream (fig. 2), which reads on a timing data indicator associated with the at least on of said plurality of data structure elements. Kaiser is silent on indicating an expiration time. Blackketter teaches expiring triggers (col. 3, II. 13-22, col. 10, II. 24-35). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser by indicating an expiration time in order to ignore invalid triggers (Blackketter: col. 10, II. 24-35).

Regarding claim 83, Kaiser is silent on indicating an expiration time. Blackketter teaches expiring triggers, which are indicative of the last instance the data structure is used (col. 3, II. 13-22, col. 10, II. 24-35). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser by

Application/Control Number: 09/697,775 Page 10

Art Unit: 2611

indicating an expiration time in order to ignore invalid triggers (Blackketter: col. 10, II. 24-35). Kaiser and Blacketter are silent on removing the data structures. Official Notice is taken that removing expired information is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kaiser and Blacketter by removing the data structures in order to conserve memory and efficiently manage the memory resources.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Y. Koenig whose telephone number is (703) 306-0399. The examiner can normally be reached on M-Th (7:30 - 6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Grant can be reached on (703) 305-4755. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ayk